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TITLE : HIGH SPEED STEEL TYPE SINTERED ALLOY

ABSTRACT : PURPOSE: To improve strength, wear resistance, surface roughing resistance, pitting corrosion resistance, and seizure resistance by specifying respective contents of C, Si, Mn, Cr, Mo, W, Co, etc., in a sintered alloy.

CONSTITUTION: The sintered alloy has a composition consisting of, by weight, $\leq 1.7\%$ C, $>0.6-3.5\%$ Si, $\leq 0.6\%$ Mn, 3-8% Cr, 3-9% Mo, 5-14% W, 7-14% Co, $>8-11\%$ of one or ≥ 2 elements among V, Ti, and Nb, and the balance essentially Fe. Further, if necessary, either or both of $\leq 2\%$ B and $\leq 3\%$ Ni are substituted for a part of Fe. If HIP sintering, etc., are applied to this alloy, the high-density high speed steel type sintered alloy can be formed. By using this sintered alloy as a rolling roll barrel member, roll life can be prolonged.

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≤ 2 B

≤ 1.7 C

S

P

> -8 Cr

0.6-3.5 Si

3-9 Mo

5-14 W

8-11 V

8-11 Nb

7-14 Co

Fe